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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/052,907	01/17/2002	Nobuyoshi Joe Maeji	05796.0008.NPUS00	9099
27194	7590 05/13/2004		EXAMINER ·	
HOWREY S	IMON ARNOLD & W	NUTTER, NATHAN M		
BOX 34	SWOOD AVE.		ART UNIT	PAPER NUMBER
MENLO PARK, CA 94025			1711	

DATE MAILED: 05/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/052,907	MAEJI ET AL.		
		Examiner	Art Unit		
		Nathan M. Nutter	1711 (/)		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address		
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 12 A	<u>pril 0204</u> .			
2a) <u></u> □	This action is FINAL . 2b)⊠ This	2b)⊠ This action is non-final.			
3) 🗌	,				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Dispositi	on of Claims				
5)□ 6)⊠ 7)⊠	Claim(s) 1-13 and 61-167 is/are pending in the 4a) Of the above claim(s) 1-13,61-135 and 155 Claim(s) is/are allowed. Claim(s) 136-144 is/are rejected. Claim(s) 145-154 is/are objected to. Claim(s) are subject to restriction and/o	i <u>-167</u> is/are withdrawn from consi	deration.		
Applicati	on Papers				
9)	The specification is objected to by the Examine	r.			
10)	The drawing(s) filed on is/are: a)☐ acc	epted or b) \square objected to by the $\mathfrak k$	Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex		• • •		
Priority u	ınder 35 U.S.C. § 119				
12)⊠ a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage		
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 2.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

Art Unit: 1711

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group II, claims 136-154, in the Paper filed 12 April 2004 is acknowledged. The traversal is on the ground(s) that "Claim 155, from which claims 156-167 depend (i.e. all of Group III claims), now defines a process for generating the product defined by claim 136 (i.e. Group II). Applicants therefore believe that claims 136-154, and 155-167 do not define patentably distinct inventions."

This is not found persuasive because the process of the Group III claims can be employed to make a different and patentably distinct composition, such as with other known grafting materials, such as with carbohydrate and protein substrates. Further, the product of the Group II claims can be produced using conventional techniques known in the art, as shown by the references cited.

The requirement is still deemed proper and is therefore made FINAL.

Claim Objections

Claims 145-154 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot properly depend from another multiple dependent claims. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 1711

A person shall be entitled to a patent unless -.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 136-144 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Pasic et al, newly cited.

The reference to Pasic et al teaches essentially what is recited in the instant claims, including the particular substrates employed for the compositions. Note the Abstract and column 1 (line 44) to column 2 (line 67) which teaches the identical concept of the substrate polymers bound covalently with monomers to produce a coated substrate with external functionalities. At column 3 (line 50) to column 4 (line 62) the grafting monomers are disclosed. Note the paragraph bridging column 7 to column 8 for the size limitations, as herein recited and claimed. Finally, note the many Examples and claims of the reference.

Art Unit: 1711

Claims 136-144 are rejected under 35 U.S.C. 102(b) as being anticipated by Chin et al, newly cited.

The reference to Chin et al, cited of interest, teaches the manufacture of polymer blends that may incorporate graft-copolymers as herein recited and claimed. The reference further teaches the concept of functional groups attached to the graft-copolymer as being available for further reaction, as claimed. Note the Abstract and column 1 (line 23) to column 2 (line 57) wherein the patent teaches the production of coated articles wherein the metal coating plate is produced by reaction of the polymer composite with metal ions. Note the many Examples and the claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 136-144 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rolando et al, newly cited.

The reference to Rolando et al teaches essentially what is recited in the instant claims, including the particular substrates employed for the compositions, except for the particular size limitations of the product. Note the Abstract and column 2 (lines 43-60), column 4 (lines 15-63) which teaches the production of a polymer graft having external

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Art Unit: 1711

functionalities (useful to bind proteins), as herein claimed. Further, note the paragraph bridging column 8 to column 9.

While the reference teaches essentially the same concept, the reference is silent with regard to the particular size limitations as recited in the instant claims. All other parameters being equal, the particular size limitations could only be viewed as a choice based upon particular final usage. A skilled artisan would know what the maximized size limitations would be depending upon final usage. As such, the product of the instant claims appears to be essentially met by the teachings of the reference, and the modification of size limitations would be an obvious choice to an artisan of ordinary skill, absent any showing of unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan M. Nutter whose telephone number is 571-272-1076. The examiner can normally be reached on Monday-Friday 9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1711

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nathan M. Nutter Primary Examiner Art Unit 1711

nmn

10 May 2004